

ESSENTIALS OF DISCRETE MATHEMATICS 2ND EDITION

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ESSENTIALS OF DISCRETE MATHEMATICS 2ND EDITION UNLOCKING THE FOUNDATIONS OF COMPUTER SCIENCE

ESSENTIALS OF DISCRETE MATHEMATICS 2ND EDITION IS AN ACCESSIBLE AND COMPREHENSIVE TEXTBOOK DESIGNED TO INTRODUCE STUDENTS TO THE FUNDAMENTAL CONCEPTS OF DISCRETE MATHEMATICS

THIS REVISED EDITION METICULOUSLY CRAFTED BY EXPERIENCED EDUCATORS PROVIDES A CLEAR AND ENGAGING PATH TO UNDERSTANDING ESSENTIAL MATHEMATICAL TOOLS WIDELY USED IN COMPUTER SCIENCE DATA SCIENCE AND RELATED FIELDS

DISCRETE MATHEMATICS LOGIC SET THEORY NUMBER THEORY INDUCTION RECURSION COUNTING GRAPH THEORY ALGORITHMS

COMPUTER SCIENCE DATA SCIENCE MATHEMATICS FOR COMPUTER SCIENCE

THIS BOOK EMBARKS ON A JOURNEY THROUGH THE CAPTIVATING WORLD OF DISCRETE MATHEMATICS UNVEILING THE BUILDING BLOCKS OF COMPUTATIONAL THINKING

STARTING WITH THE FOUNDATIONAL PRINCIPLES OF LOGIC AND SET THEORY THE TEXT PROGRESSES THROUGH A SYSTEMATIC EXPLORATION OF ESSENTIAL CONCEPTS LIKE

NUMBER THEORY DELVING INTO THE PROPERTIES OF INTEGERS INCLUDING DIVISIBILITY MODULAR ARITHMETIC AND PRIME NUMBERS

INDUCTION AND RECURSION MASTERING THE ART OF PROVING MATHEMATICAL STATEMENTS AND DEFINING SEQUENCES AND FUNCTIONS THROUGH RECURSIVE RELATIONSHIPS

COUNTING AND PROBABILITY UNDERSTANDING THE PRINCIPLES OF COMBINATORICS PERMUTATIONS AND COMBINATIONS LEADING TO THE EXPLORATION OF PROBABILITY THEORY AND ITS APPLICATIONS

GRAPH THEORY NAVIGATING THE WORLD OF GRAPHS EXPLORING THEIR FUNDAMENTAL PROPERTIES AND APPLICATIONS IN NETWORK ANALYSIS OPTIMIZATION PROBLEMS AND ALGORITHMS

ALGORITHMS INTRODUCING THE ESSENTIAL CONCEPTS OF ALGORITHM DESIGN AND ANALYSIS EXPLORING TIME AND SPACE COMPLEXITY AND EXPLORING FUNDAMENTAL ALGORITHMS LIKE SEARCHING AND SORTING

ESSENTIALS OF DISCRETE MATHEMATICS 2ND EDITION GOES BEYOND MERE DEFINITIONS AND THEOREMS OFFERING A RICH COLLECTION OF EXAMPLES EXERCISES AND REALWORLD APPLICATIONS THAT SOLIDIFY UNDERSTANDING AND FOSTER CRITICAL THINKING

THE TEXTS CLEAR WRITING STYLE ACCOMPANIED BY NUMEROUS FIGURES AND DIAGRAMS ENSURES A SMOOTH AND ENJOYABLE LEARNING EXPERIENCE FOR STUDENTS

2 CONCLUSION

DISCRETE MATHEMATICS ISNT JUST ABOUT NUMBERS AND EQUATIONS ITS ABOUT A POWERFUL FRAMEWORK FOR UNDERSTANDING THE LOGIC BEHIND COMPLEX SYSTEMS

IT LAYS THE FOUNDATION FOR TACKLING REALWORLD PROBLEMS IN COMPUTER SCIENCE DATA ANALYSIS AND BEYOND

BY MASTERING THE PRINCIPLES PRESENTED IN THIS BOOK YOU GAIN THE ABILITY TO THINK SYSTEMATICALLY SOLVE INTRICATE PROBLEMS AND BUILD ROBUST COMPUTATIONAL SOLUTIONS

SO EMBARK ON THIS EXCITING JOURNEY AND UNLOCK THE POWER OF DISCRETE MATHEMATICS A LANGUAGE THAT UNLOCKS THE MYSTERIES OF THE DIGITAL AGE

FAQS

1 WHY SHOULD I STUDY DISCRETE MATHEMATICS IF IM INTERESTED IN COMPUTER SCIENCE

DISCRETE MATHEMATICS PROVIDES THE MATHEMATICAL LANGUAGE AND TOOLS CRUCIAL FOR UNDERSTANDING THE UNDERLYING PRINCIPLES OF COMPUTER SCIENCE

CONCEPTS LIKE LOGIC SET THEORY ALGORITHMS AND GRAPH THEORY FORM THE FOUNDATION FOR DEVELOPING EFFICIENT ALGORITHMS ANALYZING DATA STRUCTURES AND TACKLING COMPUTATIONAL CHALLENGES

2 IS THIS BOOK SUITABLE FOR BEGINNERS WITH NO PRIOR MATHEMATICAL BACKGROUND

ABSOLUTELY

ESSENTIALS OF DISCRETE MATHEMATICS 2ND EDITION IS DESIGNED TO BE ACCESSIBLE TO STUDENTS WITH A BASIC UNDERSTANDING OF HIGH SCHOOL ALGEBRA

THE TEXT PROVIDES CLEAR EXPLANATIONS ILLUSTRATIVE EXAMPLES AND NUMEROUS PRACTICE PROBLEMS TO GUIDE YOU THROUGH THE LEARNING PROCESS

3 HOW DOES THE 2ND EDITION DIFFER FROM THE PREVIOUS EDITION

THE 2ND EDITION HAS BEEN THOROUGHLY REVISED AND ENHANCED TO INCORPORATE THE LATEST DEVELOPMENTS IN DISCRETE MATHEMATICS AND ITS APPLICATIONS

IT FEATURES UPDATED CONTENT NEW SECTIONS AND EXAMPLES REFLECTING CURRENT TRENDS IN COMPUTER SCIENCE AND DATA SCIENCE

ENHANCED PEDAGOGY IMPROVED EXPLANATIONS ADDITIONAL PRACTICE PROBLEMS AND REALWORLD

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 SOME REALWORLD APPLICATIONS OF DISCRETE MATHEMATICS DISCRETE MATHEMATICS HAS A WIDE RANGE
 OF APPLICATIONS IN VARIOUS FIELDS IT PLAYS A VITAL ROLE IN COMPUTER SCIENCE DESIGNING EFFICIENT
 ALGORITHMS UNDERSTANDING DATA STRUCTURES AND DEVELOPING SECURE COMMUNICATION PROTOCOLS
 DATA SCIENCE ANALYZING DATA BUILDING PREDICTIVE MODELS AND UNDERSTANDING COMPLEX
 RELATIONSHIPS IN DATASETS CRYPTOGRAPHY DEVELOPING SECURE ENCRYPTION METHODS AND ENSURING
 DATA PRIVACY NETWORK ANALYSIS OPTIMIZING NETWORK PERFORMANCE ANALYZING SOCIAL NETWORKS
 AND UNDERSTANDING TRAFFIC FLOW GAME THEORY ANALYZING STRATEGIC DECISIONMAKING IN GAMES
 DEVELOPING STRATEGIES AND UNDERSTANDING ECONOMIC INTERACTIONS ESSENTIALS OF DISCRETE
 MATHEMATICS 2ND EDITION IS NOT JUST A TEXTBOOK ITS A GATEWAY TO A WORLD OF EXCITING
 POSSIBILITIES EMPOWERING YOU TO UNDERSTAND AND SHAPE THE DIGITAL FUTURE

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 TOM JENKYNs ROWAN GARNIER KENNETH H. ROSEN PETER FLETCHER SEYMOUR LIPSCHUTZ RAJENDRA
 AKERKAR ALI GRAMI JOSEPH G. ROSENSTEIN DAVID HUNTER THOMAS KOSHY K. D. JOSHI SEYMOR
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CHARTRAND AND ZHANGS DISCRETE MATHEMATICS PRESENTS A CLEARLY WRITTEN STUDENT FRIENDLY
 INTRODUCTION TO DISCRETE MATHEMATICS THE AUTHORS DRAW FROM THEIR BACKGROUND AS
 RESEARCHERS AND EDUCATORS TO OFFER LUCID DISCUSSIONS AND DESCRIPTIONS FUNDAMENTAL TO THE
 SUBJECT OF DISCRETE MATHEMATICS UNIQUE AMONG DISCRETE MATHEMATICS TEXTBOOKS FOR ITS
 TREATMENT OF PROOF TECHNIQUES AND GRAPH THEORY TOPICS DISCUSSED ALSO INCLUDE LOGIC
 RELATIONS AND FUNCTIONS ESPECIALLY EQUIVALENCE RELATIONS AND BIJECTIVE FUNCTIONS ALGORITHMS

AND ANALYSIS OF ALGORITHMS INTRODUCTION TO NUMBER THEORY COMBINATORICS COUNTING THE PASCAL TRIANGLE AND THE BINOMIAL THEOREM DISCRETE PROBABILITY PARTIALLY ORDERED SETS LATTICES AND BOOLEAN ALGEBRAS CRYPTOGRAPHY AND FINITE STATE MACHINES THIS HIGHLY VERSATILE TEXT PROVIDES MATHEMATICAL BACKGROUND USED IN A WIDE VARIETY OF DISCIPLINES INCLUDING MATHEMATICS AND MATHEMATICS EDUCATION COMPUTER SCIENCE BIOLOGY CHEMISTRY ENGINEERING COMMUNICATIONS AND BUSINESS SOME OF THE MAJOR FEATURES AND STRENGTHS OF THIS TEXTBOOK NUMEROUS CAREFULLY EXPLAINED EXAMPLES AND APPLICATIONS FACILITATE LEARNING MORE THAN 1 600 EXERCISES RANGING FROM ELEMENTARY TO CHALLENGING ARE INCLUDED WITH HINTS ANSWERS TO ALL ODD NUMBERED EXERCISES DESCRIPTIONS OF PROOF TECHNIQUES ARE ACCESSIBLE AND LIVELY STUDENTS BENEFIT FROM THE HISTORICAL DISCUSSIONS THROUGHOUT THE TEXTBOOK

WRITTEN FOR THE ONE TERM COURSE THE THIRD EDITION OF ESSENTIALS OF DISCRETE MATHEMATICS IS DESIGNED TO SERVE COMPUTER SCIENCE MAJORS AS WELL AS STUDENTS FROM A WIDE RANGE OF DISCIPLINES THE MATERIAL IS ORGANIZED AROUND FIVE TYPES OF THINKING LOGICAL RELATIONAL RECURSIVE QUANTITATIVE AND ANALYTICAL THIS PRESENTATION RESULTS IN A COHERENT OUTLINE THAT STEADILY BUILDS UPON MATHEMATICAL SOPHISTICATION GRAPHS ARE INTRODUCED EARLY AND REFERRED TO THROUGHOUT THE TEXT PROVIDING A RICHER CONTEXT FOR EXAMPLES AND APPLICATIONS TUDENTS WILL ENCOUNTER ALGORITHMS NEAR THE END OF THE TEXT AFTER THEY HAVE ACQUIRED THE SKILLS AND EXPERIENCE NEEDED TO ANALYZE THEM THE FINAL CHAPTER CONTAINS IN DEPTH CASE STUDIES FROM A VARIETY OF FIELDS INCLUDING BIOLOGY SOCIOLOGY LINGUISTICS ECONOMICS AND MUSIC

WRITTEN IN AN ACCESSIBLE STYLE THIS TEXT PROVIDES A COMPLETE COVERAGE OF DISCRETE MATHEMATICS AND ITS APPLICATIONS AT AN APPROPRIATE LEVEL OF RIGOUR THE BOOK DISCUSSES ALGEBRAIC STRUCTURES MATHEMATICAL LOGIC LATTICES BOOLEAN ALGEBRA GRAPH THEORY AUTOMATA THEORY GRAMMARS AND RECURRENCE RELATIONS IT COVERS THE IMPORTANT TOPICS SUCH AS CODING THEORY DIJKSTRA S SHORTEST PATH ALGORITHM REVERSE POLISH NOTATION WARSHALL S ALGORITHM MENER S THEOREM TURING MACHINE AND LR K PARSERS WHICH FORM A PART OF THE FUNDAMENTAL APPLICATIONS OF DISCRETE MATHEMATICS IN COMPUTER SCIENCE IN ADDITION PIGEONHOLE PRINCIPLE RING HOMOMORPHISM FIELD AND INTEGRAL DOMAIN TREES NETWORK FLOWS LANGUAGES AND RECURRENCE RELATIONS THE TEXT IS SUPPORTED WITH A LARGE NUMBER OF EXAMPLES WORKED OUT PROBLEMS AND DIAGRAMS THAT HELP STUDENTS UNDERSTAND THE THEORETICAL EXPLANATIONS THE BOOK IS INTENDED AS A TEXT FOR POSTGRADUATE STUDENTS OF MATHEMATICS COMPUTER SCIENCE AND COMPUTER APPLICATIONS IN ADDITION IT WILL BE EXTREMELY USEFUL FOR THE UNDERGRADUATE STUDENTS OF COMPUTER SCIENCE AND ENGINEERING

MANY YEARS OF PRACTICAL EXPERIENCE IN TEACHING DISCRETE MATHEMATICS FORM THE BASIS OF THIS TEXT BOOK PART I CONTAINS PROBLEMS ON SUCH TOPICS AS BOOLEAN ALGEBRA K VALUED LOGICS GRAPHS AND NETWORKS ELEMENTS OF CODING THEORY AUTOMATA THEORY ALGORITHMS THEORY COMBINATORICS BOOLEAN MINIMIZATION AND LOGICAL DESIGN THE EXERCISES ARE PRECEDED BY AMPLE THEORETICAL BACKGROUND MATERIAL FOR FURTHER STUDY THE READER IS REFERRED TO THE EXTENSIVE BIBLIOGRAPHY PART II FOLLOWS THE SAME STRUCTURE AS PART I AND GIVES HELPFUL HINTS AND SOLUTIONS AUDIENCE THIS BOOK WILL BE OF GREAT VALUE TO UNDERGRADUATE STUDENTS OF DISCRETE MATHEMATICS WHEREAS THE MORE DIFFICULT EXERCISES WHICH COMPRISE ABOUT ONE THIRD OF THE MATERIAL WILL ALSO APPEAL TO POSTGRADUATES AND RESEARCHERS

PRESENTING A GENTLE INTRODUCTION TO ALL THE BASICS OF DISCRETE MATHEMATICS THIS BOOK INTRODUCES SETS PROPOSITIONAL LOGIC PREDICATE LOGIC AND MATHEMATICAL MODELS IT DISCUSSES RELATIONS INCLUDING HOMOGENEOUS RELATIONS

THE ADVENT OF FAST COMPUTERS AND THE SEARCH FOR EFFICIENT ALGORITHMS REVOLUTIONIZED

COMBINATORICS AND BROUGHT ABOUT THE FIELD OF DISCRETE MATHEMATICS THIS BOOK IS AN INTRODUCTION TO THE MAIN IDEAS AND RESULTS OF DISCRETE MATHEMATICS AND WITH ITS EMPHASIS ON ALGORITHMS IT SHOULD BE INTERESTING TO MATHEMATICIANS AND COMPUTER SCIENTISTS ALIKE THE BOOK IS ORGANIZED INTO THREE PARTS ENUMERATION GRAPHS AND ALGORITHMS AND ALGEBRAIC SYSTEMS THERE ARE 600 EXERCISES WITH HINTS AND SOLUTIONS TO ABOUT HALF OF THEM THE ONLY PREREQUISITES FOR UNDERSTANDING EVERYTHING IN THE BOOK ARE LINEAR ALGEBRA AND CALCULUS AT THE UNDERGRADUATE LEVEL PRAISE FOR THE GERMAN EDITION THIS BOOK IS A WELL WRITTEN INTRODUCTION TO DISCRETE MATHEMATICS AND IS HIGHLY RECOMMENDED TO EVERY STUDENT OF MATHEMATICS AND COMPUTER SCIENCE AS WELL AS TO TEACHERS OF THESE TOPICS KONRAD ENGEL FOR MATHSCINET MARTIN AIGNER IS A PROFESSOR OF MATHEMATICS AT THE FREE UNIVERSITY OF BERLIN HE RECEIVED HIS PHD AT THE UNIVERSITY OF VIENNA AND HAS HELD A NUMBER OF POSITIONS IN THE USA AND GERMANY BEFORE MOVING TO BERLIN HE IS THE AUTHOR OF SEVERAL BOOKS ON DISCRETE MATHEMATICS GRAPH THEORY AND THE THEORY OF SEARCH THE MONTHLY ARTICLE TURAN'S GRAPH THEOREM EARNED HIM A 1995 LESTER R FORD PRIZE OF THE MAA FOR EXPOSITORY WRITING AND HIS BOOK PROOFS FROM THE BOOK WITH GILBERT M ZIEGLER HAS BEEN AN INTERNATIONAL SUCCESS WITH TRANSLATIONS INTO 12 LANGUAGES

THIS LIVELY INTRODUCTORY TEXT EXPOSES THE STUDENT IN THE HUMANITIES TO THE WORLD OF DISCRETE MATHEMATICS A PROBLEM SOLVING BASED APPROACH GROUNDED IN THE IDEAS OF GEORGE POLYA ARE AT THE HEART OF THIS BOOK STUDENTS LEARN TO HANDLE AND SOLVE NEW PROBLEMS ON THEIR OWN A STRAIGHTFORWARD CLEAR WRITING STYLE AND WELL CRAFTED EXAMPLES WITH DIAGRAMS INVITE THE STUDENTS TO DEVELOP INTO PRECISE AND CRITICAL THINKERS PARTICULAR ATTENTION HAS BEEN GIVEN TO THE MATERIAL THAT SOME STUDENTS FIND CHALLENGING SUCH AS PROOFS THIS BOOK ILLUSTRATES HOW TO SPOT INVALID ARGUMENTS TO ENUMERATE POSSIBILITIES AND TO CONSTRUCT PROBABILITIES IT ALSO PRESENTS CASE STUDIES TO STUDENTS ABOUT THE POSSIBLE DETRIMENTAL EFFECTS OF IGNORING THESE BASIC PRINCIPLES THE BOOK IS INVALUABLE FOR A DISCRETE AND FINITE MATHEMATICS COURSE AT THE FRESHMAN UNDERGRADUATE LEVEL OR FOR SELF STUDY SINCE THERE ARE FULL SOLUTIONS TO THE EXERCISES IN AN APPENDIX WRITTEN WITH CLARITY HUMOR AND RELEVANT REAL WORLD EXAMPLES BASIC DISCRETE MATHEMATICS IS A WONDERFUL INTRODUCTION TO DISCRETE MATHEMATICAL REASONING ARTHUR BENJAMIN PROFESSOR OF MATHEMATICS AT HARVEY MUDD COLLEGE AND AUTHOR OF THE MAGIC OF MATH

THIS TEXTBOOK PROVIDES AN ENGAGING AND MOTIVATIONAL INTRODUCTION TO TRADITIONAL TOPICS IN DISCRETE MATHEMATICS IN A MANNER SPECIFICALLY DESIGNED TO APPEAL TO COMPUTER SCIENCE STUDENTS THE TEXT EMPOWERS STUDENTS TO THINK CRITICALLY TO BE EFFECTIVE PROBLEM SOLVERS TO INTEGRATE THEORY AND PRACTICE AND TO RECOGNIZE THE IMPORTANCE OF ABSTRACTION CLEARLY STRUCTURED AND INTERACTIVE IN NATURE THE BOOK PRESENTS DETAILED WALKTHROUGHS OF SEVERAL ALGORITHMS STIMULATING A CONVERSATION WITH THE READER THROUGH INFORMAL COMMENTARY AND PROVOCATIVE QUESTIONS FEATURES NO UNIVERSITY LEVEL BACKGROUND IN MATHEMATICS REQUIRED IDEALLY STRUCTURED FOR CLASSROOM USE AND SELF STUDY WITH MODULAR CHAPTERS FOLLOWING ACM CURRICULUM RECOMMENDATIONS DESCRIBES MATHEMATICAL PROCESSES IN AN ALGORITHMIC MANNER CONTAINS EXAMPLES AND EXERCISES THROUGHOUT THE TEXT AND HIGHLIGHTS THE MOST IMPORTANT CONCEPTS IN EACH SECTION SELECTS EXAMPLES THAT DEMONSTRATE A PRACTICAL USE FOR THE CONCEPT IN QUESTION

IN A COMPREHENSIVE YET EASY TO FOLLOW MANNER DISCRETE MATHEMATICS FOR NEW TECHNOLOGY FOLLOWS THE PROGRESSION FROM THE BASIC MATHEMATICAL CONCEPTS COVERED BY THE GCSE IN THE UK AND BY HIGH SCHOOL ALGEBRA IN THE USA TO THE MORE SOPHISTICATED MATHEMATICAL CONCEPTS EXAMINED IN THE LATTER STAGES OF THE BOOK THE BOOK PUNCTUATES THE RIGOROUS TREATMENT OF THEORY WITH FREQUENT USES OF PERTINENT EXAMPLES AND EXERCISES ENABLING READERS TO ACHIEVE A

FEEL FOR THE SUBJECT AT HAND THE EXERCISE HINTS AND SOLUTIONS ARE PROVIDED AT THE END OF THE BOOK TOPICS COVERED INCLUDE LOGIC AND THE NATURE OF MATHEMATICAL PROOF SET THEORY RELATIONS AND FUNCTIONS MATRICES AND SYSTEMS OF LINEAR EQUATIONS ALGEBRAIC STRUCTURES BOOLEAN ALGEBRAS AND A THOROUGH TREATISE ON GRAPH THEORY ALTHOUGH AIMED PRIMARILY AT COMPUTER SCIENCE STUDENTS THE STRUCTURED DEVELOPMENT OF THE MATHEMATICS ENABLES THIS TEXT TO BE USED BY UNDERGRADUATE MATHEMATICIANS SCIENTISTS AND OTHERS WHO REQUIRE AN UNDERSTANDING OF DISCRETE MATHEMATICS

THE GOAL OF THIS TEXT IS A FOCUSED INTRODUCTION TO THE PRIMARY THEMES IN A DISCRETE MATHEMATICS COURSE AS INTRODUCED THROUGH EXTENSIVE APPLICATIONS EXPANSIVE DISCUSSION AND DETAILED EXERCISE SETS THESE THEMES INCLUDE MATHEMATICAL REASONING COMBINATORIAL ANALYSIS DISCRETE STRUCTURES ALGORITHMIC THINKING AND ENHANCED PROBLEM SOLVING SKILLS THROUGH MODELING ITS INTENT IS TO DEMONSTRATE THE RELEVANCE AND PRACTICALITY OF DISCRETE MATHEMATICS TO ALL STUDENTS THE FIFTH EDITION INCLUDES A MORE THOROUGH AND LINEAR PRESENTATION OF LOGIC PROOF TYPES AND PROOF WRITING AND MATHEMATICAL REASONING THIS ENHANCED COVERAGE WILL PROVIDE STUDENTS WITH A SOLID UNDERSTANDING OF THE MATERIAL AS IT RELATES TO THEIR IMMEDIATE FIELD OF STUDY AND OTHER RELEVANT SUBJECTS THE INCLUSION OF APPLICATIONS AND EXAMPLES TO KEY TOPICS HAS BEEN SIGNIFICANTLY ADDRESSED TO ADD CLARITY TO EVERY SUBJECT TRUE TO THE FOURTH EDITION THE TEXT SPECIFIC WEB SITE SUPPLEMENTS THE SUBJECT MATTER IN MEANINGFUL WAYS OFFERING ADDITIONAL MATERIAL FOR STUDENTS AND INSTRUCTORS DISCRETE MATH IS AN ACTIVE SUBJECT WITH NEW DISCOVERIES MADE EVERY YEAR THE CONTINUAL GROWTH AND UPDATES TO THE WEB SITE REFLECT THE ACTIVE NATURE OF THE TOPICS BEING DISCUSSED THIS TEXT IS DESIGNED FOR A ONE OR TWO TERM INTRODUCTORY DISCRETE MATHEMATICS COURSE TO BE TAKEN BY STUDENTS IN A WIDE VARIETY OF MAJORS INCLUDING COMPUTER SCIENCE MATHEMATICS AND ENGINEERING COLLEGE ALGEBRA IS THE ONLY EXPLICIT PREREQUISITE

THIS IS A TOPIC THAT BECOMES INCREASINGLY IMPORTANT EVERY YEAR AS THE DIGITAL AGE EXTENDS AND GROWS MORE ENCOMPASSING IN EVERY FACET OF LIFE DISCRETE MATHEMATICS THE STUDY OF FINITE SYSTEMS HAS BECOME MORE IMPORTANT AS THE COMPUTER AGE HAS ADVANCED AS COMPUTER ARITHMETIC LOGIC AND COMBINATORICS HAVE BECOME STANDARD TOPICS IN THE DISCIPLINE FOR MATHEMATICS MAJORS IT IS ONE OF THE CORE REQUIRED COURSES THIS NEW EDITION WILL BRING THE OUTLINE INTO SYNCH WITH ROSEN MCGRAW HILL S BESTSELLING TEXTBOOK IN THE FIELD AS WELL AS UP TO SPEED IN THE CURRENT CURRICULUM NEW MATERIAL WILL INCLUDE EXPANDED COVERAGE OF LOGIC THE RULES OF INFERENCE AND BASIC TYPES OF PROOFS IN MATHEMATICAL REASONING THIS WILL GIVE STUDENTS A BETTER UNDERSTANDING OF PROOFS OF FACTS ABOUT SETS AND FUNCTIONS THERE WILL BE INCREASED EMPHASIS ON DISCRETE PROBABILITY AND ASPECTS OF PROBABILITY THEORY AND GREATER ACCESSIBILITY TO COUNTING TECHNIQUES THIS NEW EDITION FEATURES COUNTING CHAPTER WILL HAVE NEW MATERIAL ON GENERALIZED COMBINATIONS NEW CHAPTER ON COMPUTER ARITHMETIC WITH BINARY AND HEXAGON ADDITION AND MULTIPLICATION NEW CRYPTOLOGY CHAPTER INCLUDING SUBSTITUTION AND RSA METHOD THIS OUTLINE IS THE PERFECT SUPPLEMENT TO ANY COURSE IN DISCRETE MATH AND CAN ALSO SERVE AS A STAND ALONE TEXTBOOK

DISCRETE MATHEMATICS ESSENTIALS AND APPLICATIONS OFFERS A COMPREHENSIVE SURVEY OF THE AREA PARTICULARLY CONCENTRATING ON THE BASIC PRINCIPLES AND APPLICATIONS OF DISCRETE MATHEMATICS THIS UP TO DATE TEXT PROVIDES PROOFS OF SIGNIFICANCE KEEPING THE FOCUS ON NUMEROUS RELEVANT EXAMPLES AND MANY PERTINENT APPLICATIONS WRITTEN IN A SIMPLE AND CLEAR TONE THE TITLE FEATURES INSIGHTFUL DESCRIPTIONS AND INTUITIVE EXPLANATIONS OF ALL COMPLEX CONCEPTS AND ENSURES A THOROUGH UNDERSTANDING OF THE SUBJECT MATTER OFFERS EASY TO UNDERSTAND COVERAGE OF THE SUBJECT MATTER WITH A CLASS TESTED PEDAGOGICAL APPROACH COVERS ALL

TOPICS IN DISCRETE MATH IN A COMPREHENSIVE YET NOT OVERWHELMING WAY INCLUDES NUMEROUS MEANINGFUL EXAMPLES ON ALL TOPICS TO BRING INSIGHT AND RELEVANT APPLICATIONS FOR ALL MAJOR TOPICS

A COLLECTION OF ARTICLES WRITTEN BY EXPERIENCED PRIMARY SECONDARY AND COLLEGIATE EDUCATORS IT EXPLAINS WHY DISCRETE MATHEMATICS SHOULD BE TAUGHT IN K 12 CLASSROOMS AND OFFERS GUIDANCE ON HOW TO DO SO IT OFFERS SCHOOL AND DISTRICT CURRICULUM LEADERS MATERIAL THAT ADDRESSES HOW DISCRETE MATHEMATICS CAN BE INTRODUCED INTO THEIR CURRICULA

THIS IS THE IDEAL TEXT FOR A ONE TERM DISCRETE MATHEMATICS COURSE TO SERVE COMPUTER SCIENTISTS AS WELL AS OTHER STUDENTS IT INTRODUCES STUDENTS TO THE MATHEMATICAL WAY OF THINKING AND ALSO TO MANY IMPORTANT MODERN APPLICATIONS

THIS APPROACHABLE TEXT STUDIES DISCRETE OBJECTS AND THE RELATIONSHIPS THAT BIND THEM IT HELPS STUDENTS UNDERSTAND AND APPLY THE POWER OF DISCRETE MATH TO DIGITAL COMPUTER SYSTEMS AND OTHER MODERN APPLICATIONS IT PROVIDES EXCELLENT PREPARATION FOR COURSES IN LINEAR ALGEBRA NUMBER THEORY AND MODERN ABSTRACT ALGEBRA AND FOR COMPUTER SCIENCE COURSES IN DATA STRUCTURES ALGORITHMS PROGRAMMING LANGUAGES COMPILERS DATABASES AND COMPUTATION COVERS ALL RECOMMENDED TOPICS IN A SELF CONTAINED COMPREHENSIVE AND UNDERSTANDABLE FORMAT FOR STUDENTS AND NEW PROFESSIONALS EMPHASIZES PROBLEM SOLVING TECHNIQUES PATTERN RECOGNITION CONJECTURING INDUCTION APPLICATIONS OF VARYING NATURE PROOF TECHNIQUES ALGORITHM DEVELOPMENT AND CORRECTNESS AND NUMERIC COMPUTATIONS WEAVES NUMEROUS APPLICATIONS INTO THE TEXT HELPS STUDENTS LEARN BY DOING WITH A WEALTH OF EXAMPLES AND EXERCISES 560 EXAMPLES WORKED OUT IN DETAIL MORE THAN 3 700 EXERCISES MORE THAN 150 COMPUTER ASSIGNMENTS MORE THAN 600 WRITING PROJECTS INCLUDES CHAPTER SUMMARIES OF IMPORTANT VOCABULARY FORMULAS AND PROPERTIES PLUS THE CHAPTER REVIEW EXERCISES FEATURES INTERESTING ANECDOTES AND BIOGRAPHIES OF 60 MATHEMATICIANS AND COMPUTER SCIENTISTS INSTRUCTOR S MANUAL AVAILABLE FOR ADOPTERS STUDENT SOLUTIONS MANUAL AVAILABLE SEPARATELY FOR PURCHASE ISBN 0124211828

ALTHOUGH THIS BOOK IS INTENDED AS A SEQUEL TO FOUNDATIONS OF DISCRETE MATHEMATICS BY THE SAME AUTHOR IT CAN BE READ INDEPENDENTLY OF THE LATTER AS THE RELEVANT BACKGROUND NEEDED HAS BEEN REVIEWED IN CHAPTER 1 THE SUBSEQUENT CHAPTERS DEAL WITH GRAPH THEORY WITH APPLICATIONS ANALYSIS OF ALGORITHMS WITH A DETAILED STUDY OF A FEW SORTING ALGORITHMS AND A DISCUSSION OF TRACTABILITY LINEAR PROGRAMMING WITH APPLICATIONS VARIATIONS KARMAKARS POLYNOMIAL TIME ALGORITHM INTEGER AND QUADRATIC PROGRAMMING APPLICATIONS OF ALGEBRA TO POLYAS THEORY OF COUNTING GALOIS THEORY CODING THEORY OF DESIGNS A CHAPTER ON MATROIDS FAMILIARISES THE READER WITH THIS RELATIVELY NEW BRANCH OF DISCRETE MATHEMATICS EVEN THOUGH SOME OF THE TOPICS ARE RELATIVELY ADVANCED AN ATTEMPT HAS BEEN MADE TO KEEP THE STYLE ELEMENTARY SO THAT A SINCERE STUDENT CAN READ THE BOOK ON HIS OWN A LARGE NUMBER OF COMMENTS EXERCISES AND REFERENCES IS INCLUDED TO BROADEN THE READERS SCOPE OF VISION A DETAILED INDEX IS PROVIDED FOR EASY REFERENCE

THE FIRST EDITION OF THIS BOOK SOLD MORE THAN 100 000 COPIES AND THIS NEW EDITION WILL SHOW YOU WHY SCHAUM S OUTLINE OF DISCRETE MATHEMATICS SHOWS YOU STEP BY STEP HOW TO SOLVE THE KIND OF PROBLEMS YOU RE GOING TO FIND ON YOUR EXAMS AND THIS NEW EDITION FEATURES ALL THE LATEST APPLICATIONS OF DISCRETE MATHEMATICS TO COMPUTER SCIENCE THIS GUIDE CAN BE USED AS A SUPPLEMENT TO REINFORCE AND STRENGTHEN THE WORK YOU DO WITH YOUR CLASS TEXT IT WORKS WELL WITH VIRTUALLY ANY DISCRETE MATHEMATICS TEXTBOOK BUT IT IS SO COMPREHENSIVE THAT IT CAN EVEN BE USED ALONE AS A TEXT IN DISCRETE MATHEMATICS OR AS INDEPENDENT STUDY TOOL

FOR ONE TWO SEMESTER SOPHOMORE LEVEL COURSES IN DISCRETE MATHEMATICS THIS TEXT COVERS ALL THE TRADITIONAL TOPICS OF DISCRETE MATHEMATICS LOGIC SETS RELATIONS FUNCTIONS AND GRAPHS AND REFLECTS RECENT TRENDS IN COMPUTER SCIENCE

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